



TROPICAL STORM ISAIAS BRIEFING

8:00 AM ET

Tuesday, August 4, 2020

Prepared by: WFO New York/New York

Next Briefing Update: This will be the final briefing unless there are significant changes.

Disclaimer: The information contained within is time-sensitive. Do not use after 5:00pm EDT Tuesday.

Situation Overview



New York, NY
WEATHER FORECAST OFFICE

Tropical Storm Isaias

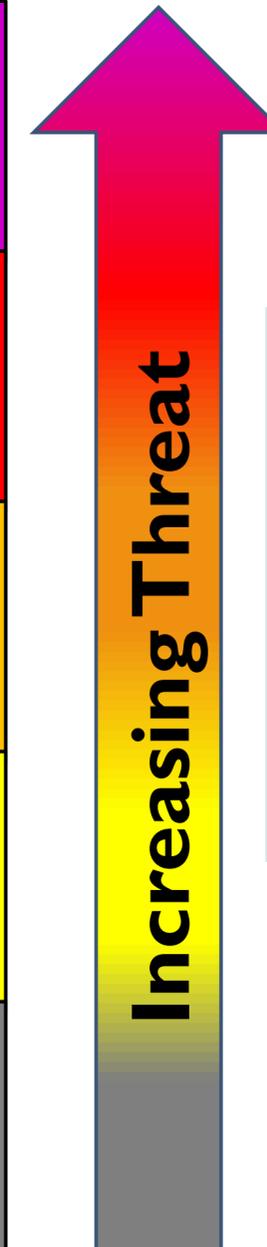
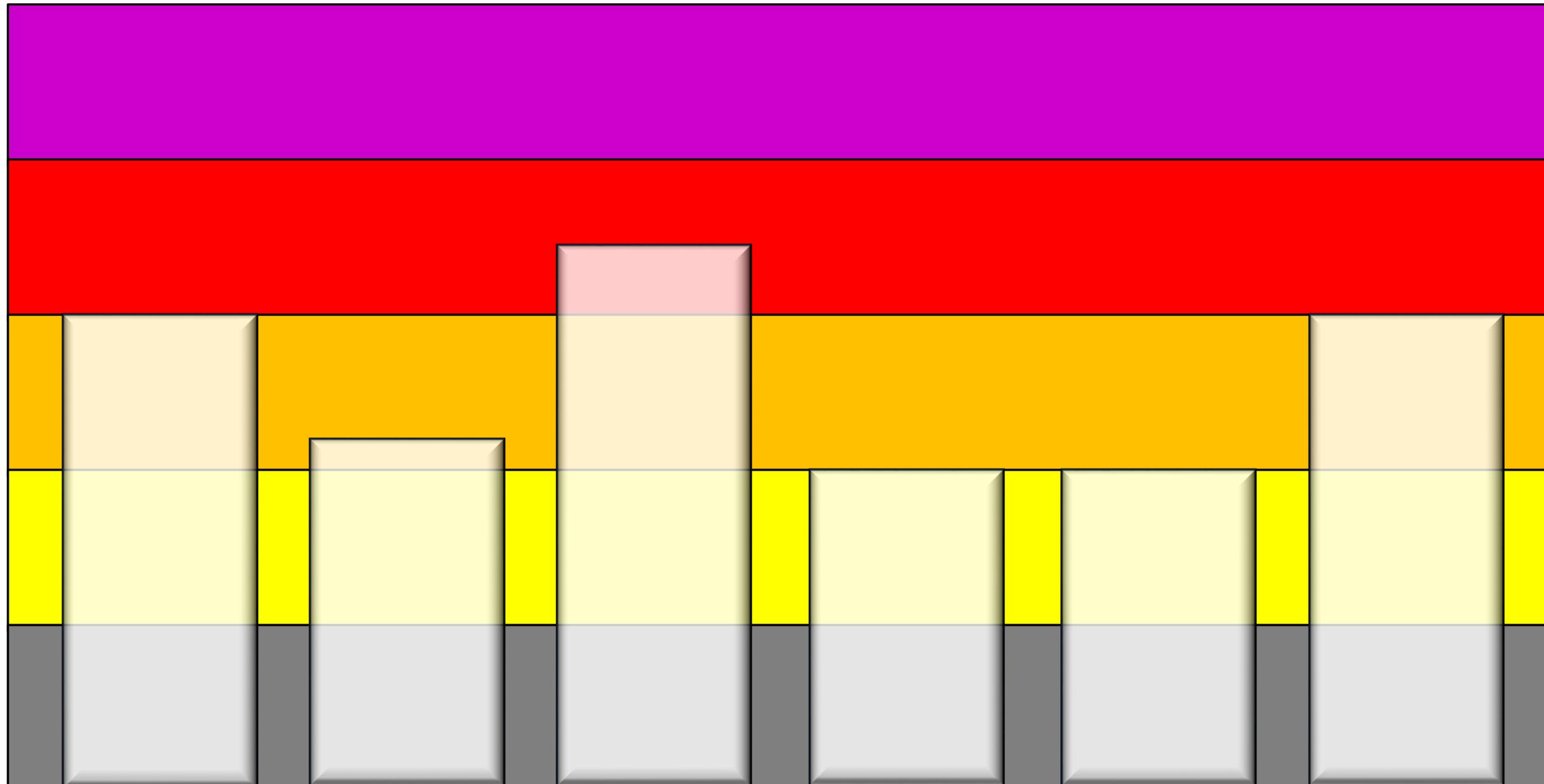
Hazard	Impacts	Location	Timing
<p>Flooding Rain 1-3", locally 5" 1-2" E LI/SE CT Flood Watch in Effect</p> 	<p>Scattered to numerous areas of urban, poor drainage, and small stream Flash Flooding</p>	<p>Highest threat across NYC, Northeastern NJ, Lower Hudson Valley, SW CT</p>	<p>Today into this Evening</p>
<p>Strong Winds Tropical Storm Warning in Effect</p> 	<p>Widespread Downed trees and tree limbs Power outages of a few days possible Minor damage to roof and siding possible</p>	<p>New York City, Coastal NJ, Long Island, Coastal Westchester and Coastal CT</p>	<p>Today into this Evening</p>
<p>Coastal/Shoreline Inundation Coastal Flood Warning</p> 	<p>Dune Erosion and Localized Washovers Moderate Coastal Flood Impacts Likely 1 to 2 ft AGL, locally 2 to 3 ft AGL</p>	<p>Vulnerable Tri-State shoreline, coastal, and tidally influenced riverine areas</p>	<p>Tonight's High Tide</p>
<p>Marine Tropical Storm Warning</p> 	<p>Dangerous marine conditions expected</p>	<p>Ocean Waters, LI Sound, nearshore bays, and NY Harbor</p>	<p>Tonight into Wednesday AM</p>
<p>High Surf/ Dangerous Rip Currents High Surf Advisory</p> 	<p>Dangerous Surf Conditions for anyone entering the water</p>	<p>Ocean Beaches</p>	<p>Today into Wednesday</p>

Threat Levels

Tropical Storm Isaias



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For information on specific hazards in this area, please go to <https://www.weather.gov/srh/tropical?office=okx>

Wind

Surge

Rainfall/
Flash Flooding

River
Flooding

Tornadoes

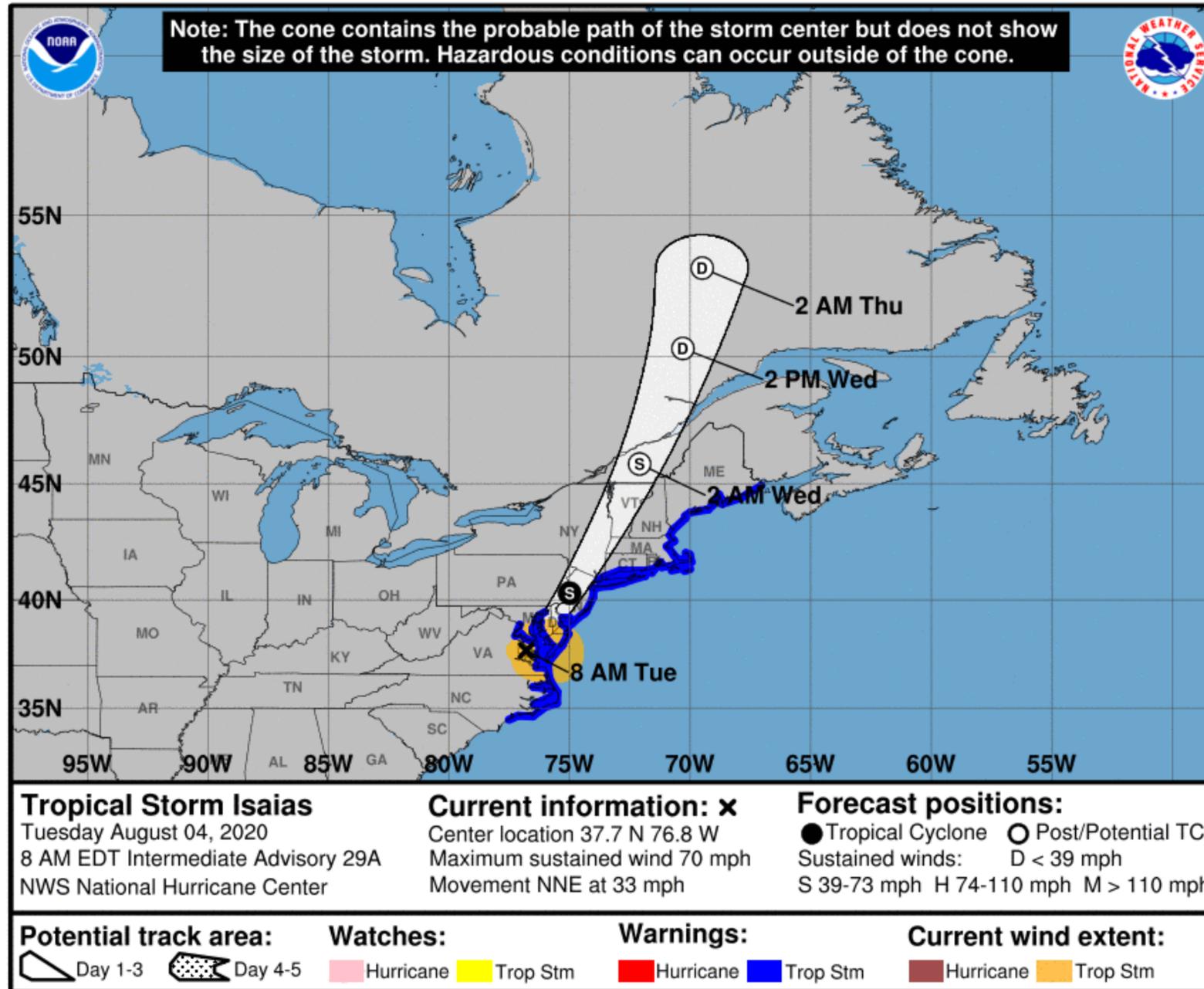
Marine

Situation Overview

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- What has Changed?
 - Storm will be a bit faster to arrive, stronger winds, and a bit less rainfall, especially east of NYC.
- Isaias is a 70 mph Tropical Storm nearing southeast VA.
- Isaias will only slowly weaken as it accelerates and curves NE to near NYC as a moderately strong tropical storm by late afternoon.
- Confidence is moderate to high on timing of most local hazards and impacts.

NOTE: Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.

TS Wind Speed Probabilities

Tropical Storm Isaias



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Tropical Storm Warning in effect for entire Tri-State.

Likely Hazards

- 45-55 mph gusts to 70 mph along the Coast, including metro NYC/NJ, and southern Westchester
- 35-45 mph gusts to 60 mph across the Interior.

Likely Impacts

- Widespread downed trees and tree limbs
- Scattered to numerous power outages possible
 - Outages may last a few days
- Minor damage to roof and siding possible

Uncertainty/Scenario

- Strongest winds and greatest potential to see the above impacts will be along the coast, including metro NYC/NJ, and southern Westchester

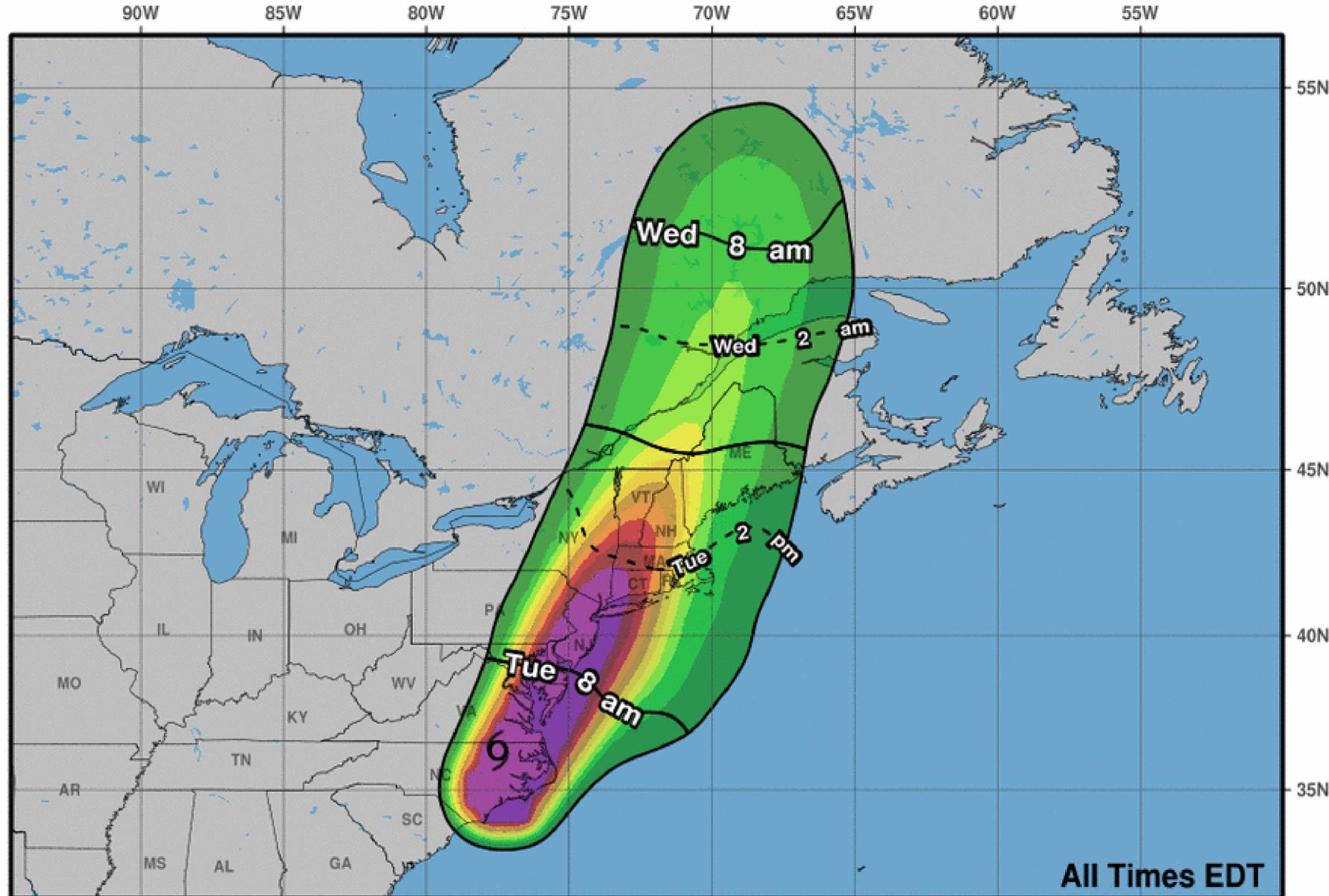
Earliest Reasonable Time of Arrival

Tropical Storm Isaias



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Earliest Reasonable Arrival Time of Tropical-Storm-Force Winds



Tropical Storm Isaias
Tue. Aug. 4, 2020 5 am EDT
Advisory 29

Storm Location ○ < 34 kt (39 mph)
& ○ 34-63 kt (39-73 mph)
Wind Speed ● ≥ 64 kt (74 mph)

5-day chance of receiving sustained 34+ kt (39+ mph) winds
5 10 20 30 40 50 60 70 80 90 100 %

- The earliest reasonable time of arrival of Tropical Storm Force Winds is this morning.
- **Preparedness actions for high risk groups and assets should be nearly completed.**

Most Likely Time of Arrival

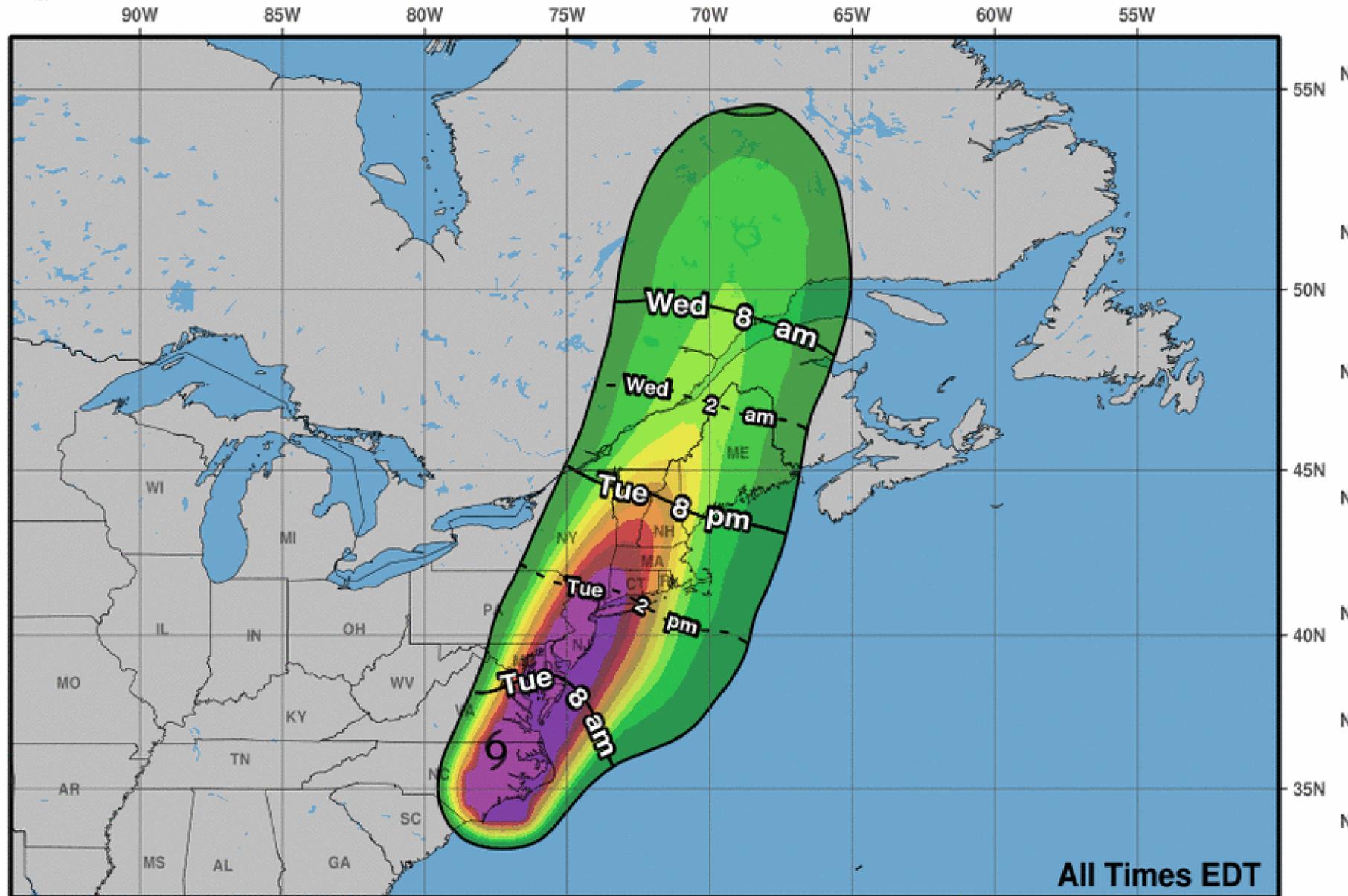
Tropical Storm Isaias



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Most Likely Arrival Time of Tropical-Storm-Force Winds



Tropical Storm Isaias
Tue. Aug. 4, 2020 5 am EDT
Advisory 29

Storm Location ○ < 34 kt (39 mph)
& ○ 34-63 kt (39-73 mph)
Wind Speed ● ≥ 64 kt (74 mph)

5-day chance of receiving sustained 34+ kt (39+ mph) winds
5 10 20 30 40 50 60 70 80 90 100 %

- The most likely time of arrival of Tropical Storm Force Winds is early this afternoon
- **All preparedness actions should be completed by this time!**

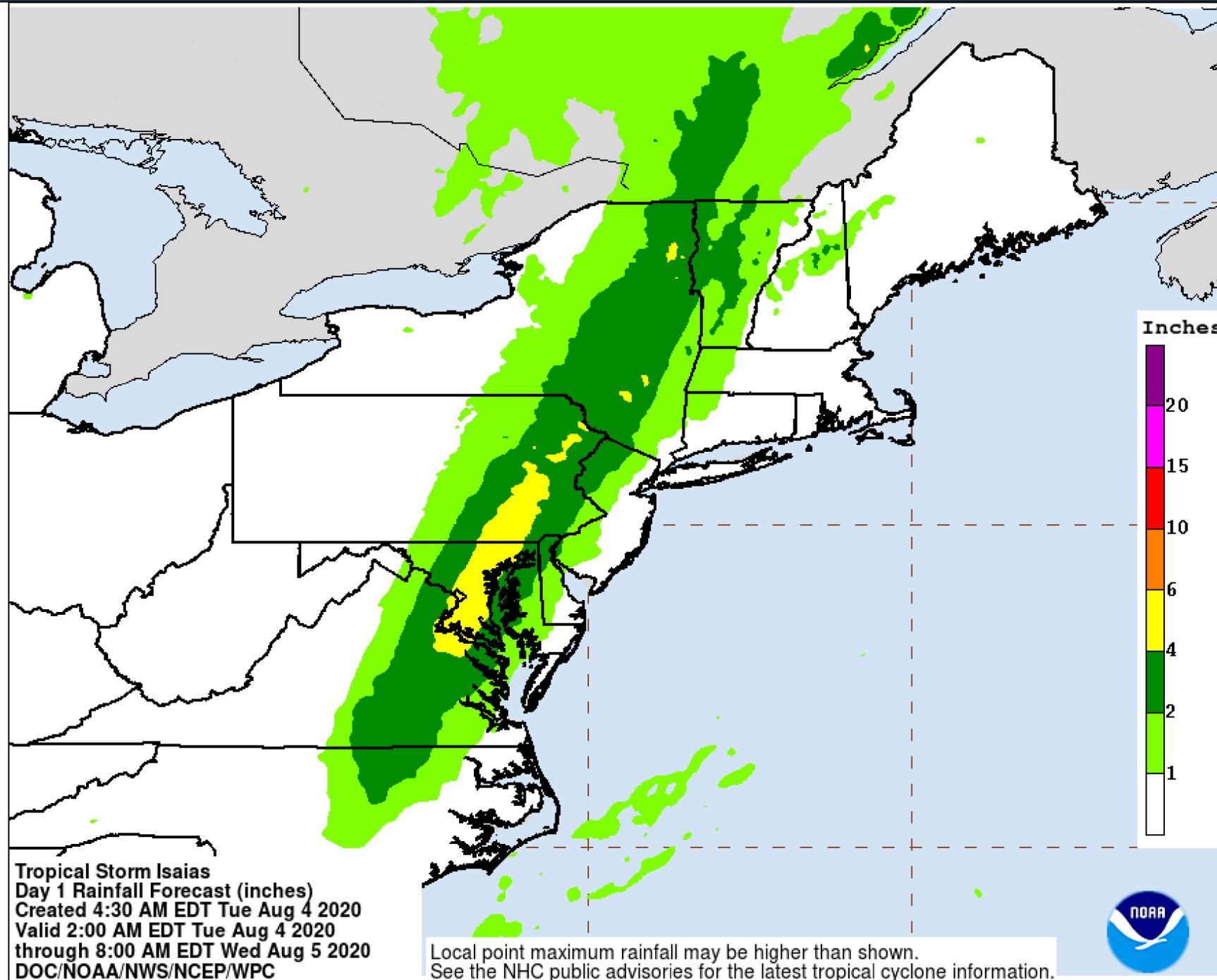
Expected Storm Total Rainfall



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Tropical Storm Isaias

Note: There will likely be locally higher amounts



- What's Changed?
 - Lowered total precipitation amounts
- Likely Hazards:
 - Storm Total Rainfall Forecast: 1-3"
 - Locally 5", NYC and N&W
 - 1 to 2 inches for Eastern LI and SE CT.
- Timing- Today
 - Heaviest rain, and most widespread flood threat will likely be in a 6-8 hr. period into this evening (10am-10pm)

Flash Flood Watch in Effect

Tropical Storm Isaias

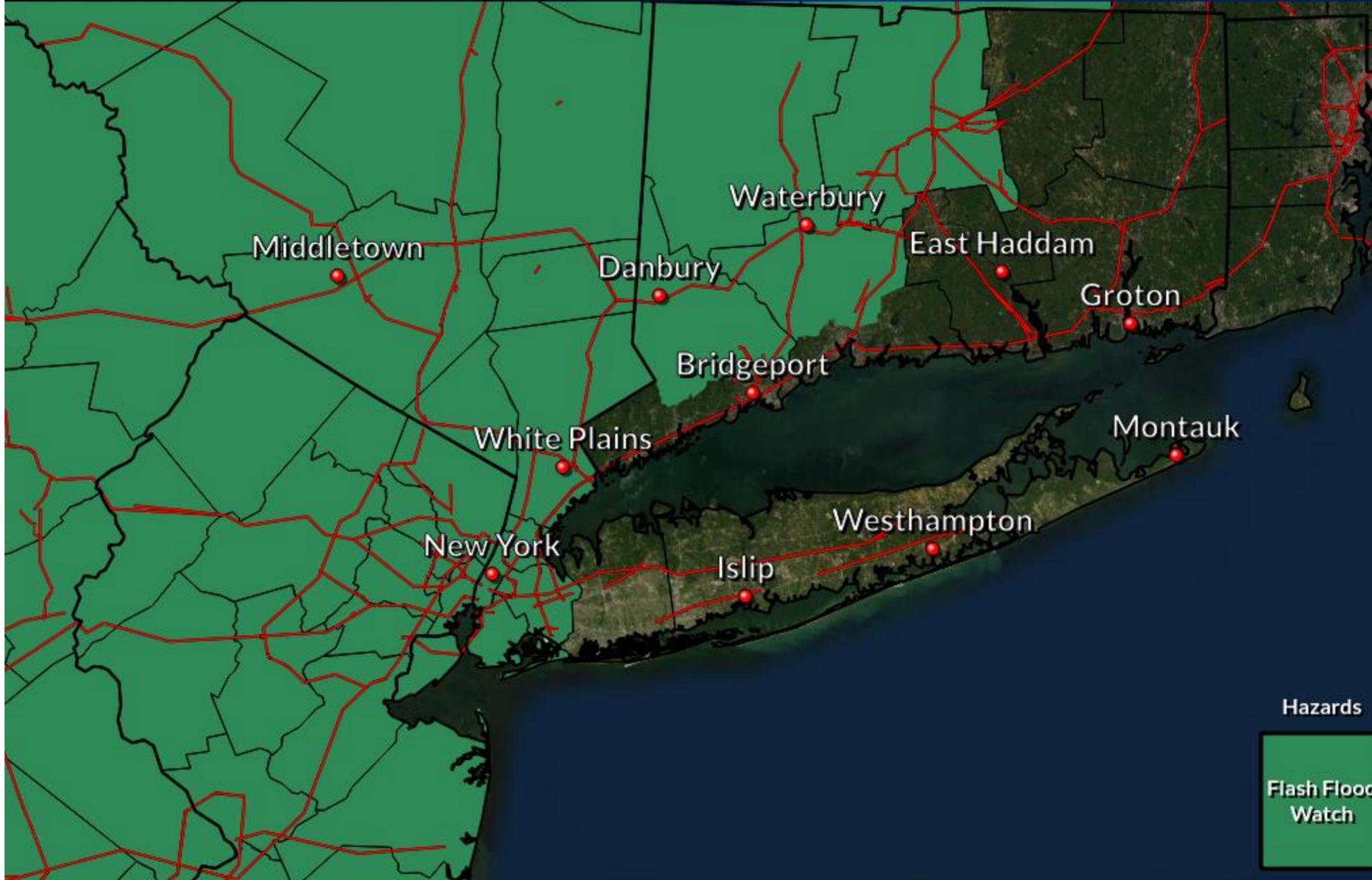


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Flash Flood Watch

Today Through Tonight

Weather Forecast Office
New York, NY
Issued Aug 04, 2020 5:22 AM EDT



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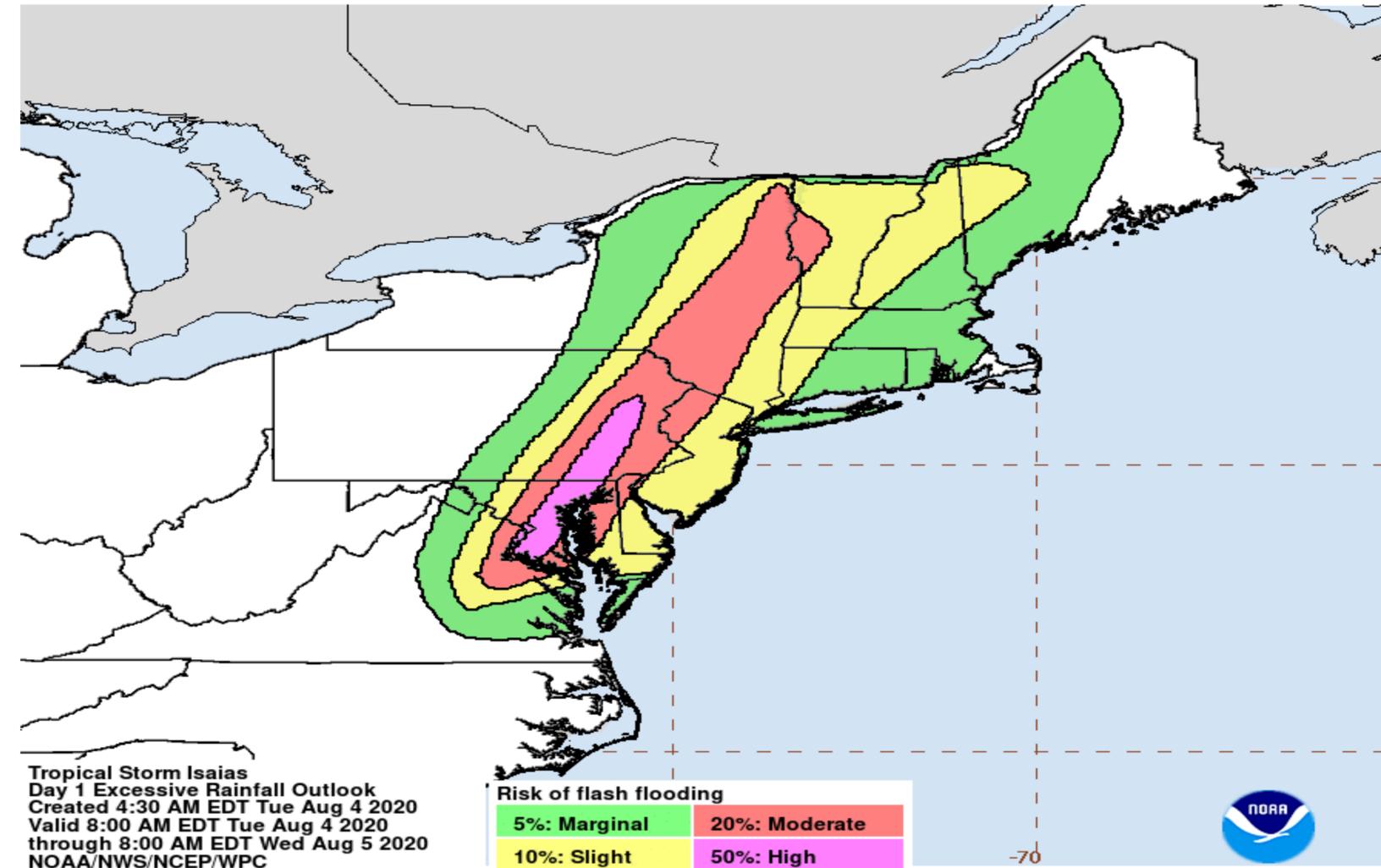
Flash Flood Threat Today

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- Localized Flash Flood Today
- Scattered to Numerous Flash Flood Impacts Today (10am-10pm):
 - Urban, poor drainage Flash Flooding.
 - Minor to Moderate flooding along rapid rising stream and creeks
 - Significant rises on larger stem rivers possible.



Understanding WPC Excessive Rainfall Risk Categories

No Area/Label	MARGINAL (MRGL)	SLIGHT (SLGT)	MODERATE (MDT)	HIGH (HIGH)
Flash floods are generally not expected.	Isolated flash floods possible	Scattered flash floods possible	Numerous flash floods likely	Widespread flash floods expected
	Localized and primarily affecting places that can experience rapid runoff with heavy rainfall.	Mainly localized. Most vulnerable are urban areas, roads, small streams and washes. Isolated significant flash floods possible.	Numerous flash flooding events with significant events possible. Many streams may flood, potentially affecting larger rivers.	Severe, widespread flash flooding. Areas that don't normally experience flash flooding, could. Lives and property in greater danger.
Flash flooding near me?	Flash Flooding	Flash Flooding	Flash Flooding	Flash Flooding
	NO Flash Flooding	Flash Flooding	Flash Flooding	Flash Flooding

www.wpc.ncep.noaa.gov
@NWSWPC

NOAA NATIONAL WEATHER SERVICE WEATHER PREDICTION CENTER

River Flood Potential Today

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RIVER FLOODING POTENTIAL

<i>River @ Location</i>	<i>Flood Stage</i>	<i>County</i>	<i>Worst Case (6 inches) in less than 6 hours</i>
Rahway River @ Springfield	7 Feet	Union	9 Feet (Moderate Flooding)
Saddle River @ Lodi	6 Feet	Bergen	7.5 Feet (Moderate Flooding)
Saddle River @ Saddle	4.5 Feet	Bergen	5 Feet (Minor Flooding)
HoHoKus Brook @ HoHoKus	3 Feet	Bergen	4 Feet (Minor Flooding)
Ramapo River @ Mahwah	8 Feet	Bergen	8.2 Feet (Minor Flooding)
Mahwah River @ Suffern	5 Feet	Rockland	5.0 Feet (Minor Flooding)
WallKill River @ Gardiner	13 Feet	Orange	12 Feet (Action - Minor Flooding)

* Minor surge flooding possible up the Hudson River tonight.

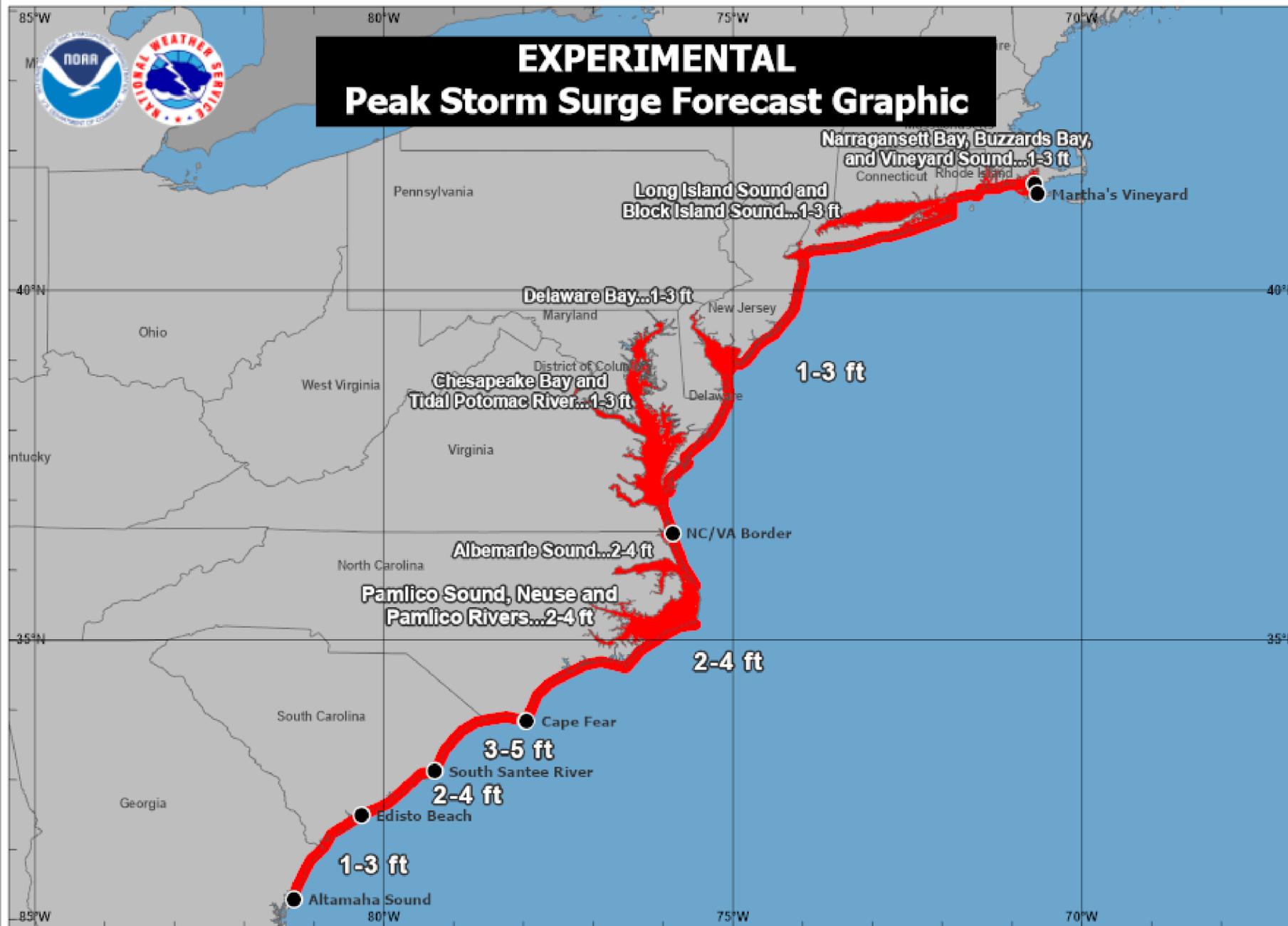
- Impacts (Moderate Flooding) - Inundation of structures and roads near streams. Some evacuations of people and/or transfer of property to higher elevations.

Potential Storm Surge

Tropical Storm Isaias



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EXPERIMENTAL Peak Storm Surge Forecast Graphic

Tropical Storm Isaias
Monday August 03, 2020
11 AM EDT Advisory 26
NWS National Hurricane Center

The combination of a dangerous storm surge and the tide will cause normally dry areas near the coast to be flooded by rising waters moving inland from the shoreline. The water could reach the following heights above ground somewhere within the indicated areas if the peak surge occurs at the time of high tide. The deepest water will occur along the immediate coast near the landfall location, where the surge will be accompanied by large and destructive waves. Surge-related flooding depends on the relative timing of the surge and the tidal cycle, and can vary greatly over short distances.

Coastal Flood Warning in Effect for tonight

Reasonable Worst Case Storm Surge Inundation Scenario.

- Areas of Moderate coastal flooding impacts expected.
 - 2 to locally 3 ft inundation
 - Along Lower NY/NJ Harbor, Jamaica Bay, Great South Bay of W LI, and Southern CT and Westchester coast
- Breaking Waves – This afternoon/evening
 - 10-15 ft ocean beaches
 - 4-7 ft Coastal Westchester and CT
 - 2-3 ft waves on GSB and NY Harbor
- Low and localized potential for life threatening coastal flooding (along South Shore Bay of Nassau and Queens).
 - 3+ ft inundation

Timing – Tonight’s High Tide

- LI Sound – 11pm – 1am
- South - 9pm – midnight

Uncertainty-

- If peak surge occurs before time of high tide, inundation will be less than forecast.

Potential Storm Surge

Tropical Storm Isaias



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Coastal Flood Hazards

Tonight's High Tide Cycle

Weather Forecast Office
New York, NY
Issued Aug 04, 2020 5:26 AM EDT



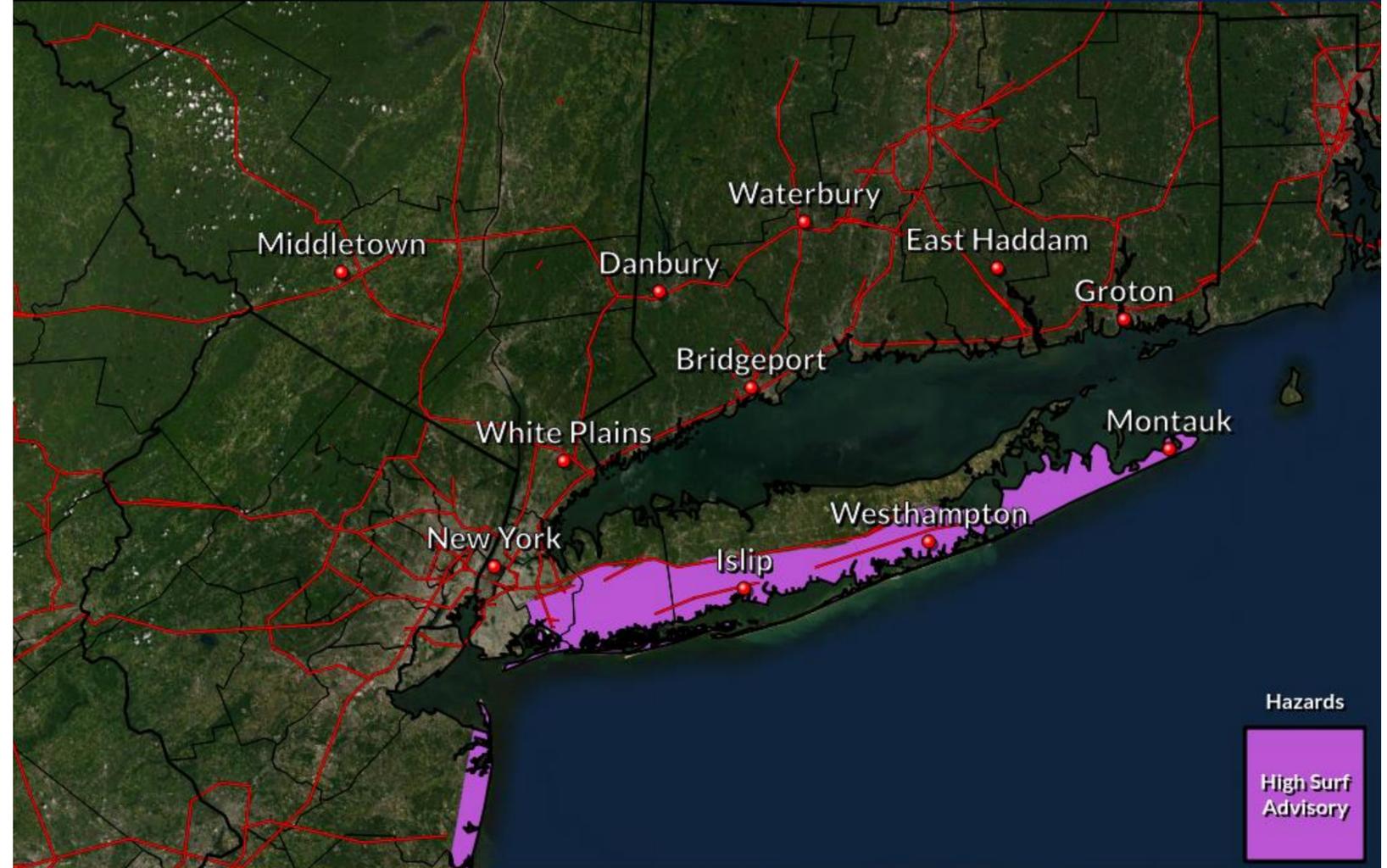
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High Surf Advisory

8am Today through 8am Wednesday

Weather Forecast Office
New York, NY
Issued Aug 04, 2020 5:41 AM EDT



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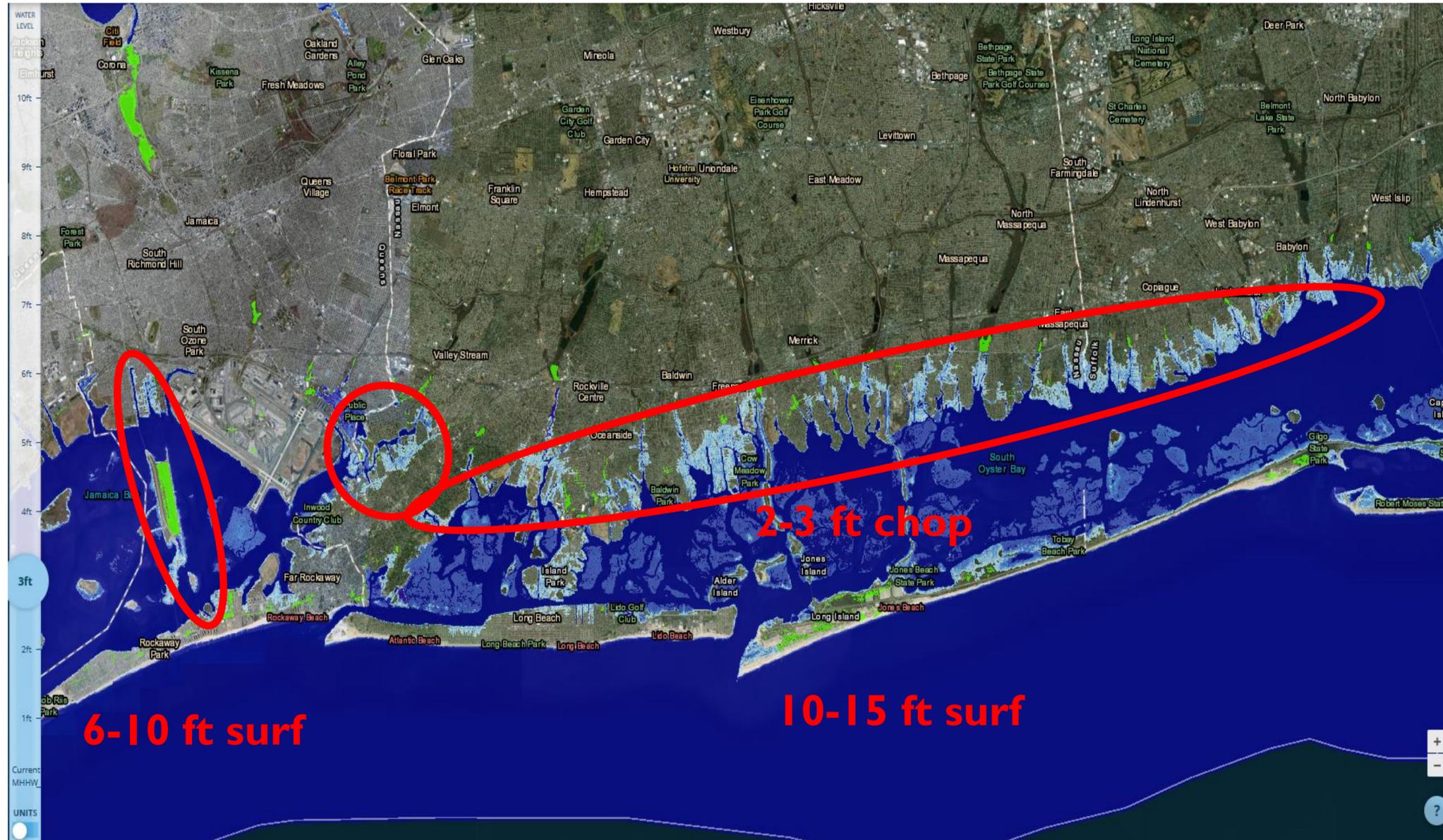
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Potential Storm Surge Inundation

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Reasonable Worst Case Storm Surge Inundation Areas - Shaded in Blue.

Low lying areas, that are not showing explicit inundation – Shaded in Yellow.

Areas circled in red have a moderate potential for 1 to 2 ft of inundation above ground level, with a low probability of 3 ft of inundation above ground level.

Potential Storm Surge Inundation

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Reasonable Worst Case Storm Surge Inundation Areas - Shaded in Blue.

- Inundation of 1 to 2 ft above ground level possible.

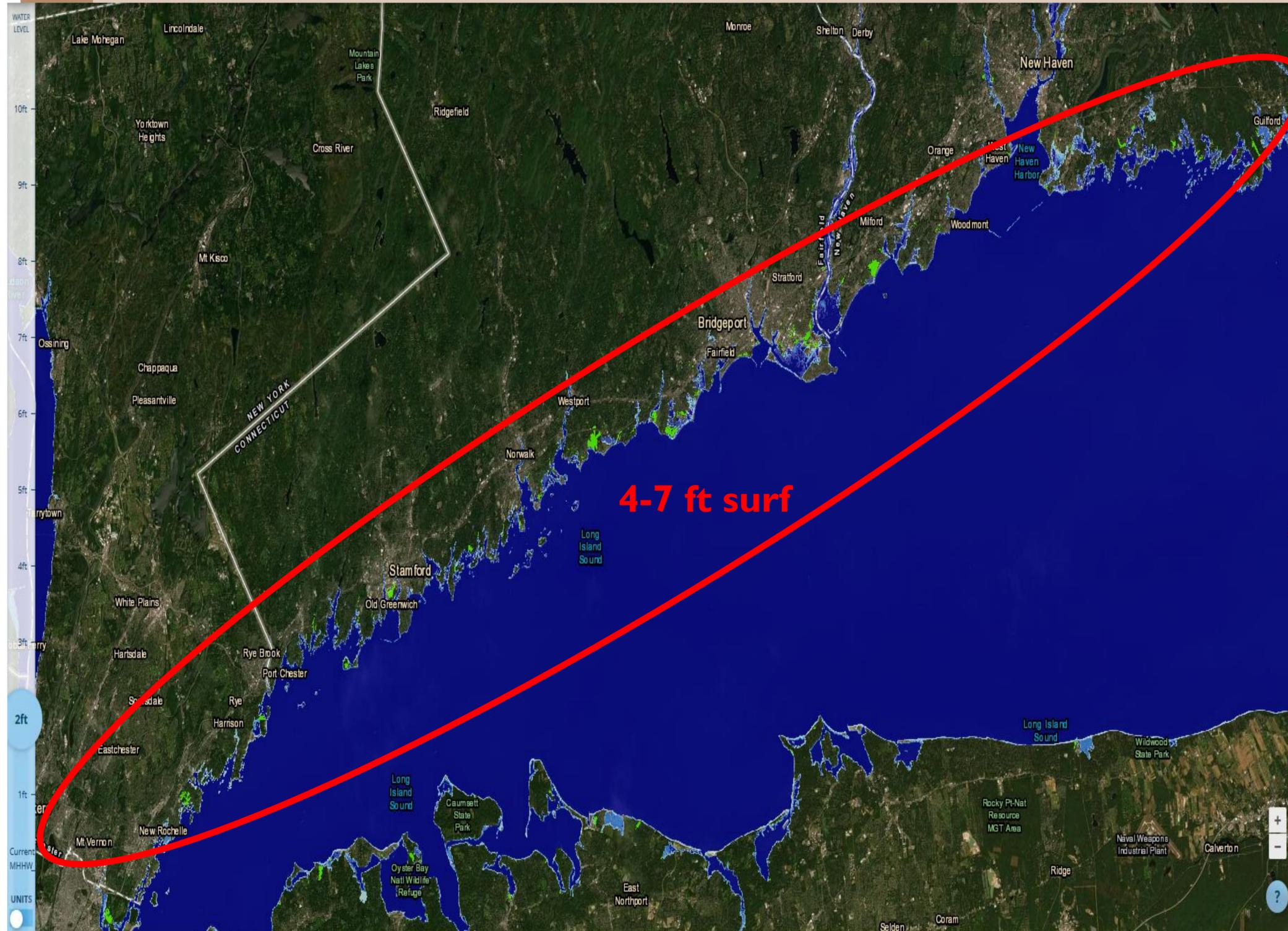
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Potential Storm Surge Inundation

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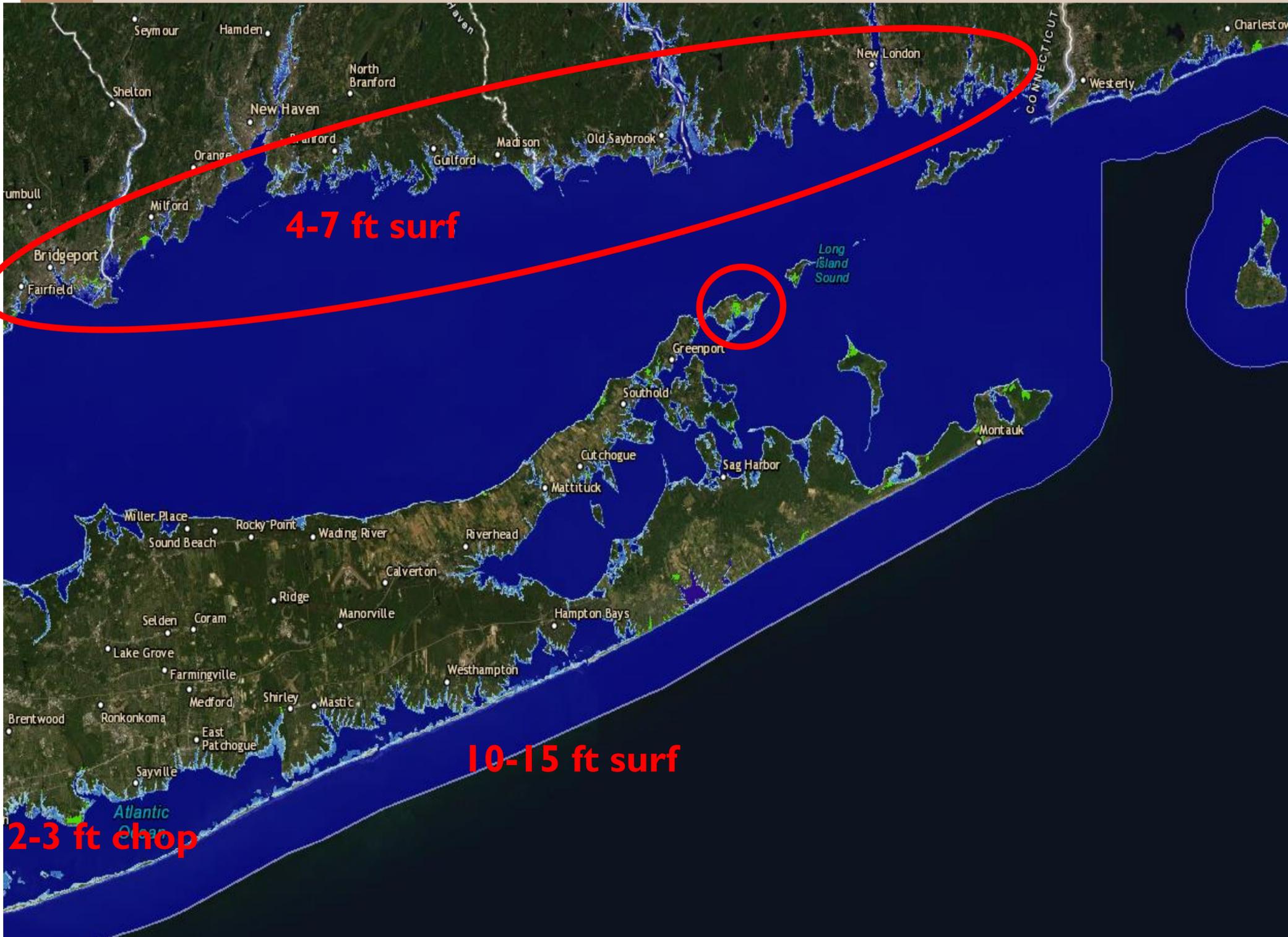
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Potential Storm Surge Inundation

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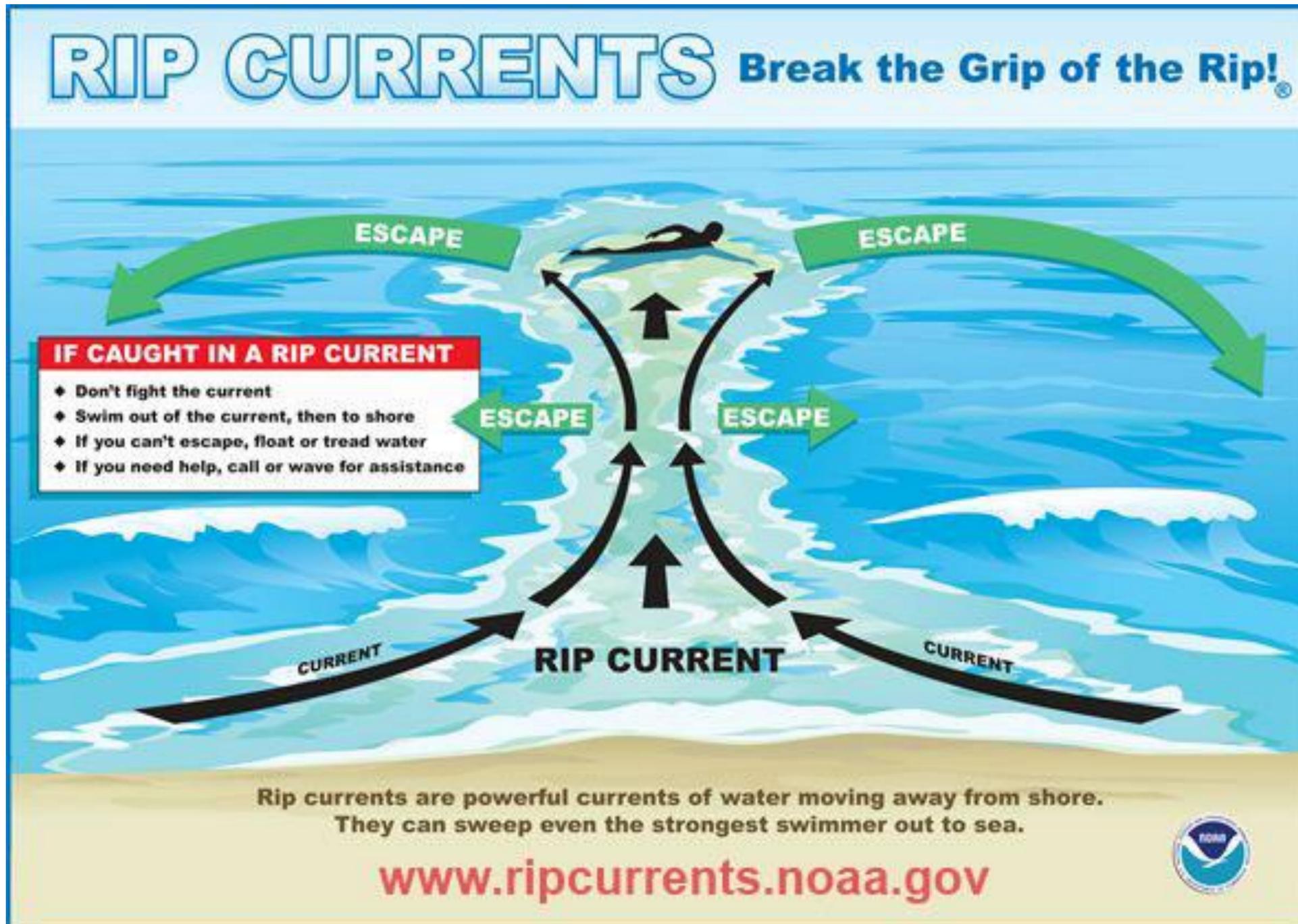
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High Surf and Dangerous Rip Current

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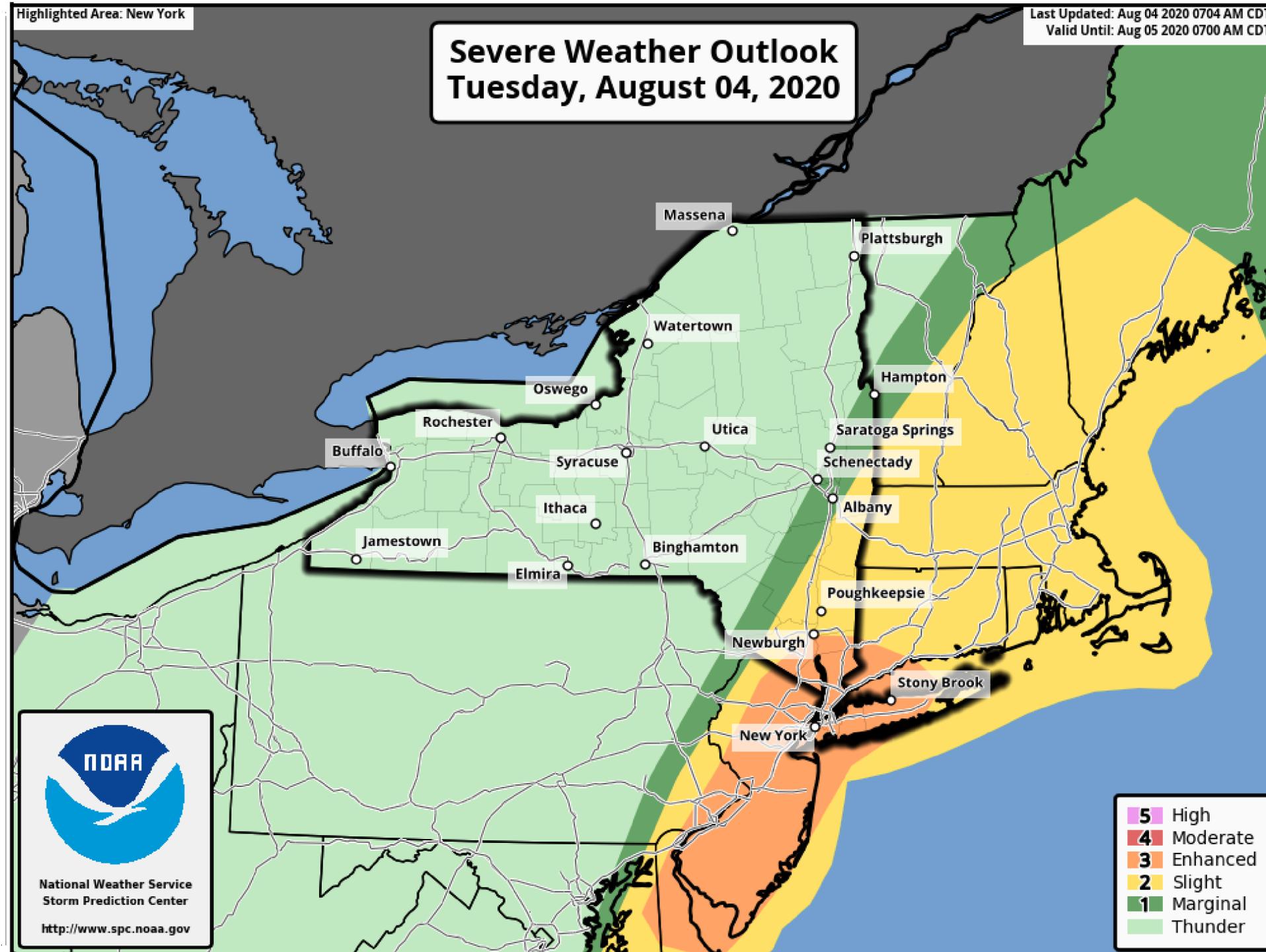
- High Surf
 - 10-15 ft breaking surf this afternoon into evening
 - Widespread dune erosion and localized wash overs are likely for the ocean beachfront during the tonight's high tides. This may result in some flooding of roadways and vulnerable structures behind compromised dunes.
- High Risk of Rip Currents through Wednesday.
 - Worst conditions Today.
- Marine
 - Tropical storm conditions this morning into this evening
 - Peak Wind Potential – 50g65kt
 - 15-20 ft seas ocean
 - 5-10 ft LI Sound

Isolated Severe Thunderstorm Potential

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Severe Weather (Tornado Threat) - Isolated damaging wind and tornado/waterspout threat this afternoon into evening.

- A brief and isolated tornado is possible in any thunderstorm
- SPC currently has a **enhanced risk** with a 10% chance of a tornado for most of the area.

Key Take-Aways

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- ✓ Confidence is HIGH that the event will occur
- ✓ Confidence is MODERATE to HIGH regarding track, intensity and impacts



Tropical Storm Force sustained winds expected, highest threat NYC/NJ metro and coast. Could see tropical storm force winds as early as this morning and likely early this afternoon.



Heavy rainfall and Flash Flood potential through tonight. Flood Watch continues for NYC, NE NJ, Lower Hudson Valley, and SW CT.



Moderate Coastal Flood and Shoreline impacts likely this evening.



High Surf Tuesday into tonight. Dangerous Rip Currents thru Wed.



Dangerous marine conditions are expected across the coastal waters today into tonight.



This will be the final briefing unless there are significant changes



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For the latest graphics and information go to: www.hurricanes.gov or weather.gov/nyc/tropical